

Title (en)

Biaxially stretched polylactic acid multilayer film and the use thereof

Title (de)

Biaxial gestreckte Polymilchsäure-Mehrschichtfolie und ihre Verwendung

Title (fr)

Film multicouche, étiré biaxialement à base d'acide polylactique et son utilisation

Publication

**EP 1619021 B1 20070829 (EN)**

Application

**EP 05015866 A 20050721**

Priority

JP 2004213701 A 20040722

Abstract (en)

[origin: EP1619021A1] Disclosed is a biaxially stretched polylactic acid multilayer film and the use thereof as packaging film. The gist of the biaxially stretched polylactic acid multilayer film resides in the construction wherein a substrate layer (I) of the biaxially stretched film comprised of polylactic acid (A) has been laminated on at least one surface thereof with a coating layer (II) of an aliphatic polyester composition (D) comprised of 97~5% by weight of an aliphatic polyester copolymer (B) having a melting point (T<sub>m</sub>) of 80~120°C, a crystallizing temperature (T<sub>c</sub>) of 35~75°C and a difference of (T<sub>m</sub>)-(T<sub>c</sub>) within the range of 35~55°C and comprising an aliphatic or alicyclic dicarboxylic acid component (b<sub>1</sub>), an aliphatic or alicyclic dihydroxyl compound component (b<sub>2</sub>) and a difunctional aliphatic hydroxycarboxylic acid component (b<sub>3</sub>) and 3~95% by weight of a polylactic acid copolymer (C) containing 7~30% by weight of D-lactic acid, a total of the ingredients (B) and (C) being 100% by weight.

IPC 8 full level

**B32B 27/36** (2006.01); **B65D 65/46** (2006.01)

CPC (source: EP US)

**B32B 27/08** (2013.01 - US); **B32B 27/36** (2013.01 - EP US); **B32B 2307/518** (2013.01 - US); **B32B 2307/718** (2013.01 - US); **B32B 2553/00** (2013.01 - US); **Y10S 428/91** (2013.01 - EP US); **Y10T 428/28** (2015.01 - EP US); **Y10T 428/2813** (2015.01 - EP US); **Y10T 428/2817** (2015.01 - EP US); **Y10T 428/2826** (2015.01 - EP US); **Y10T 428/31786** (2015.04 - EP US)

Cited by

EP2629971A4; GB2489934B; US2011019940A1; EP2292526A1; EP2480710A4; US8206796B2; WO2008113509A1; US9163141B2; US9688057B2; US9309018B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 1619021 A1 20060125**; **EP 1619021 B1 20070829**; DE 602005002198 D1 20071011; DE 602005002198 T2 20080521; JP 2006027245 A 20060202; JP 4495535 B2 20100707; US 2006019111 A1 20060126; US 7087313 B2 20060808

DOCDB simple family (application)

**EP 05015866 A 20050721**; DE 602005002198 T 20050721; JP 2004213701 A 20040722; US 18598105 A 20050721